

PATENT

Attorney's Docket No.: U 014798-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Inventor:

KEN-SHWO DAI

WARNING: The Declaration must name all of the actual inventor(s).

For (title):

HUMAN ARL-RELATED GENE VARIANTS ASSOCIATED WITH CANCERS

1.	Тур	e of Application ,
This	new	application is for a(n) (check one applicable item below):
	\square	Original (nonprovisional)
		Design
		Plant
WARN	IING:	Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C 371(c)(4) unless the International Application is being filed as a divisional, continuation or continuation-in part application.
WARN	ING:	Do not use this transmittal for the filing of a provisional application.

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date SEPTEMBER 2, 2003 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV327549664US addressed to the: Assistant Commissioner of Patents, Washington, D.C. 20231

JENNIFER RASHKIN .

(type or print name of person mailing paper)

Signature of person mailing paper)

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 CFR 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

(Application Transmittal [4-1]—page 1 of 7)

2.	Ben	efit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)
NOTE:	wher applie	new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or e the parent case is an International Application which designated the U.S., or benefit of a prior provisional cation is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW ICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
WARN	ING:	If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.
WARN	NG:	When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional must be filed prior to the Saturday, Sunday or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
		The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
NOTE:	TRAI	e of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION NSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT ICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
		Divisional.
		Continuation.
		Continuation-in-Part (C-I-P).
3.		ers Enclosed That Are Required For Filing Date Under 37 CFR 1.53 (Regular) or 37 CFR 53 (Design) Application
5	21	Pages of claims
	5	Pages of claims
	1	Pages of Abstract
	16	Sheets of drawing
		☑ formal
		□ informal
WARN	ING:	DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).
NOTE:	docke the d	tifying indicia, if provided, should include the application number or the title of the invention, inventor's name, et number (if any), and the name and telephone number of a person to call if the Office is unable to match rawings to the proper application. This information should be placed on the back of each sheet of drawing nimum distance of 1.5 cm. (% inch) down from the top of the page." 37 C.F.R. 1.84(c).
		(complete the following, if applicable)
		The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)". 37 C.F.R. 1.84(b).

2.

4.	Add	tional papers enclosed
		Preliminary Amendment
		Information Disclosure Statement (37 CFR 1.98)
		Form PTO-1449
		Citations
		Declaration of Biological Deposit
		Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
		Authorization of Attorney(s) to Accept and Follow Instructions from Representative
		Special Comments
		Other
5.	Dec	aration or oath
		Enclosed
		executed by (check all applicable boxes)
		☐ inventor.
		☐ legal representative of inventor. 37 CFR 1.42 or 1.43
		$\hfill \Box$ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
		This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.
	\square	Not Enclosed.
WARN	IING:	Where the filing is a completion in the U.S. of an International Application but where a declaration is not available or where the completion of the U.S. application contains subject matter in addition to the International Application the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
		☐ Application is made by a person authorized under 37 CFR 1.41(c) on behalf of all the above named inventor. (The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).
NOTE:	It is	apportant that all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).
		Showing that the filing is authorized. (Not required unless called into question. 37 CFR 1.41(d).)
6.	Inve	ntorship Statement
WARN	IING:	If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.
	The	nventorship for all the claims in this application are:
		The same
		Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
7.	Lang	uage

NOTE: An application including a signed oath or declaration may be filed in a language other than English. A verified English translation of the non-English language application and the processing fee of \$130.00 required by 37 CFR

				Claims as Filed		
	Α.	₩ ₩	Regular Application			
10.	Fee (Calcu	ulation (37 CFR 1.16)			
NOTE:	applic entitle	ation ed to	is for any foreign priority for or International Application fro priority from a prior foreign a ON TRANSMITTAL WHERE BE	om which this app application then co	lication claims benefi Implete item 18 on i	t under 35 U.S.C. 120 is itsel the ADDED PAGES FOR NEV
NOTE:			n application forming the basis (55(a) and 1.63.	for the claim for pi	riority must be referre	ed to in the oath or declaration
			will follow.			
			is attached.			
		fı	rom which priority is clai	med		
			Country		Appln. No.	, Filed
	Certi	fied	copy of application			
9.	Certi	fied	Сору			
WARNI	NG:		ewly executed "CERTIFICATE ication is filed by an assignee.			
NOTE:			nnment is submitted with a new ignment." Notice of May 4, 19			one for the application and on
			will follow.			
						SIGNMENT (DOCUMENT FORM PTO 1595 is also
		An	assignment of the invent	ion to		
3.	Assi	gnm	ent			
			the attached translation	n is a verified to	anslation. 37 CF	R 1.52(d).
		non	-English			•
	\square	Eng	lish			
NOTE:	A nor	_	lish oath or declaration in the f	orm provided or a	oproved by the PTO i	need not be translated. 37 CF
	1.17(1.52(required to be filed with the a	application or with	in such time as may	be set by the Office. 37 CF

	Nu	ımb	r Filed			N	lumbe	er E	xtra	1	Rate	Basic Fee 37 CFR 1.16(a) \$750.00
Total (-))	28	- 20	=		8	×	\$	18.00	144.00
Indepe (37 C				2	- 3	=		0	×	\$	84.00	•
Multip (37 C			ent claim(s), if a	ny				+	\$	280.00	
•		Am	endment c	ancell	ling ext	ra cla	aims e	enc	lose	d.		
		Am	endment d	eletin	g multi	ple-d	epend	den	cies	en	closed.	
		Fee	for extra d	laims	is not	being	g paic	at	this	s tir	ne.	
NOTE:	men	t, prioi		ation of	f the time	perio	d set f					cancelled by amend- d Trademark Office
							Filin	ıg F	ee (Cald	culation \$	
В.			ign applica 30.00 — 3		R 1.16	(f))	Filin	ng F	ee (Cald	culation \$	
C.			nt application 20.00 — 3		R 1.16	(g))	Filin	ig F	ee (Cald	culation \$	
11.	Sma	all En	tity Staten	nent(s	;)							•
	⋈		tement(s) t CFR 1.9 ar									
		Filin	ng Fee Calc	ulatio	n (50%	6 of <i>i</i>	A , B (or C	ab	ove	\$	
NOTE:			s of the full fe onths of the (nd request are filed
12.	Req		for Interna	tional	l-Type	Searc	ch (37	7 CI	FR 1	.10)4(d)) <i>(Compl</i>	lete, if applica-
			• •							-	ort for this ap	oplication at the
13.	Fee	Payr	nent Being	Made	e At Th	is Tiı	me					
	\square	Not	Enclosed									
		⋈	No filing by 37 CF									ırcharge required
		Enc	losed									
			basic filin	g fee							\$	

		Recording assignment (\$40.00; 37 CFR 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.")	
		Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. (\$130.00; 37 CFR 1.47 and 1.17(h))	\$ ·
		For processing an application with a specification in a non-English language. (\$130.00; 37 CFR 1.52(d) and 1.17(k))	\$
		Processing and retention fee (\$130.00; 37 CFR 1.53(d) and 1.21(I))	
		Fee for international-type search report (\$40.00; 37 CFR 1.21(e)).	\$
NOTE:	failing to c CFR 1.53 basic filing	21(I) establishes a fee for processing and retaining any application omplete the application pursuant to 37 CFR 1.53(d) and this, as wand 1.78, indicate that in order to obtain the benefit of a prior U.S. If fee must be paid or the processing and retention fee of §1.21(I) motification under §53(d).	ell as the changes to 37 application, either the
		Total fees enclosed	\$
14.	Method	of Payment of Fees	
	□ Che	eck in the amount of \$	
	☐ Chá	arge Account No. 12-0425 in the amount of	\$
	A d	uplicate of this transmittal is attached.	,
NOTE:	Fees shoul	d be itemized in such a manner that it is clear for which purpose th	ne fees are paid. 37 CFR
15. Au		n to Charge Additional Fees	
WARNING: WARNING:	Accurate	s are to be paid on filing, the following items should <u>not</u> be complet ly count claims, especially multiple dependent claims, to avoid une. arges are authorized.	
		mmissioner is hereby authorized to charge the following and during the entire pendency of this application to A	
	□ 37	7 CFR 1.16(a), (f) or (g) (filing fees)	
	□ 37	7 CFR 1.16(b), (c) and (d) (presentation of extra claims	s)
only by t	be paid or he PTO in a	onal fees for excess or multiple dependent claims not paid on filing these claims cancelled by amendment prior to the expiration of the ny notice of fee deficiency (37 CFR 1.16(d)), it might be best not to fees, except possibly when dealing with amendments after final ac	e time period set for response o authorize the PTO to charge
		t 1.16(e) (surcharge for filing the basic filing fee and/can the filing date of the application)	or declaration on a date
	37 CFF	1.17 (application processing fees)	
WARNING:	should be 1.136(a)	CFR 1.17(a), (b), (c) and (d) deal with extensions of time under made only with the knowledge that: "Submission of the appropriate is to no avail <u>unless</u> a request or petition for extension is filed." or 5,1985 (1060 O.G. 27)	extension fee under 37 C.F.R.

		37 CFR 1.18 (issue fee at or before CFR 1.311(b))	ore mailing of Notice of Allowance, pursuant to 37
NOTE:	of Al		a deposit account has been filed before the mailing of a Notice charged to the deposit account at the time of mailing the notice
NOTE:	the a	application prior to paying, or at the time	nge in loss of entitlement to small entity status must be filed in of paying, issue fee". From the wording of 37 CFR 1.28(b): e even if the fee is paid as "other than a small entity" and (b) no r small entity.
16.	Inst	ructions As To Overpayment	
		credit Account No. 12-0425	
		refund	
			Signature of Attorney
Reg. N	o 25	5 858	William R. Evans
neg. N	0. 2	5,838	Ladas & Parry
Tel. No	. (21	12) 708-1945	26 West 61 Street New York, NY 10023
	Inco	orporation by reference of added pa	ges
		of prior U.S. application(s) (inc stage as a continuation, divis	the application in this transmittal claims the benefit cluding an international application entering the U.S. ional or C-I-P application) and complete and attach APPLICATION TRANSMITTAL WHERE BENEFIT OF CLAIMED)
		Plus Added Pages for New Application(s) Claimed	tion Transmittal Where Benefit of Prior U.S. Applica-
			Number of pages added
		Plus Added Pages for Papers Refe	rred to in Item 4 Above
			Number of pages added
		Plus "Assignment Cover Letter Ac	companying New Application"
			Number of pages added
☑	Stat	tement Where No Further Pages Ad	ded
		(If no further pages form a part of page and check the following item	this Transmittal, then end this Transmittal with this n:)
	☑	This transmittal ends with this page	ge.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

oplication of:	KEN-SHWO DAI
No.:	Group No.:
SEPTEMBER 2, 2	003 Examiner:
HUMAN ARL-RE CANCERS	LATED GENE VARIANTS ASSOCIATED WITH
ey Docket No.:	U014798-3
ox 1450	0
WRITTEN	ASSERTION OF SMALL ENTITY STATUS
his is written asserti	on on the basis of:
ersonal knowledge;	
pplicant's letter of	;
	r of September 2, 2003; or
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	- y of record) that the above application is entitled to small entity stat
	y artists of the me are to approximate to small entiry state
efore, fees.	
efore, fees.	3
CER	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.)
CER (When using	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory;
CER (When using	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.)
CER (When using tify that, on the date shown	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.) a below, this correspondence is being: MAILING ates Postal Service in an envelope addressed to the Commissioner for Patents, P. O.
CER (When using) tify that, on the date shown	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.) a below, this correspondence is being: MAILING ates Postal Service in an envelope addressed to the Commissioner for Patents, P. O.
CER (When using) tify that, on the date shown eposited with the United State ox 1450, Alexandria, VA 2	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.) below, this correspondence is being: MAILING ates Postal Service in an envelope addressed to the Commissioner for Patents, P. O. 2313-1450. 37 C.F.R. 1.10*
CER (When using tify that, on the date shown eposited with the United States ox 1450, Alexandria, VA 2	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.) a below, this correspondence is being: MAILING ates Postal Service in an envelope addressed to the Commissioner for Patents, P. O. 2313-1450. 37 C.F.R. 1.10* as "Express Mail Post Office to Address" Mailing Label No. EV327549664US
CER (When using) tify that, on the date shown eposited with the United State ox 1450, Alexandria, VA 2 37 C.F.R. 1.8(a) ith sufficient postage as firs	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.) a below, this correspondence is being: MAILING attes Postal Service in an envelope addressed to the Commissioner for Patents, P. O. 2313-1450. 37 C.F.R. 1.10* as "Express Mail Post Office to Address" Mailing Label No. EV327549664US (mandatory)
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CER (When using) tify that, on the date shown eposited with the United State ox 1450, Alexandria, VA 2 37 C.F.R. 1.8(a) ith sufficient postage as first	TIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10* Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.) a below, this correspondence is being: MAILING ates Postal Service in an envelope addressed to the Commissioner for Patents, P. O. 2313-1450. 37 C.F.R. 1.10* as "Express Mail Post Office to Address" Mailing Label No. EV327549664US (mandatory) TRANSMISSION be Patent and Trademark Office.
i : 1	cancers Ey Docket No.: Essioner for Patents Export 1450 dria, VA 22313-1450 WRITTEN This is written assertionersonal knowledge; pplicant's letter of pplicant's agent's letter ther titioner (not necessarily

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

Written Assertion of Small Entity Status – page 1 of 2 7-8a

- NOTE: "To establish small entity status after the payment of the basic filing or national stage fee as a non-small entity, a written assertion of small entity status is required to be submitted." Notice of September 8, 2000, 65 Fed. Reg. 54604, at 54609.
- NOTE: 37 C.F.R. § 1.27(c)(1): "Assertion by writing. Small entity status may be established by a written assertion of entitlement to small entity status. A written assertion must:
 - (i) Be clearly identifiable;
 - (ii) Be signed (see paragraph (c)(2) of this section); and
 - (iii) Convey the concept of entitlement to small entity status, such as by stating that applicant is a small entity, or that small entity status is entitled to be asserted for the application or patent. While no specific words or wording are required t assert small entity status, the intent to assert small entity status must be clearly indicated in order to comply with the assertion requirement."
- NOTE: 37 C.F.R. § 1.27(c)(2): "Parties who can sign and file the written assertion. The written assertion can be signed by:
 - (i) One of the parties identified in § 1.33.(b) (e.g. an attorney or agent registered with the Office). § 3.73(b) of this chapter notwithstanding, who can also file the written assertion;
 - (ii) At least one of the individuals identified as an inventor (even though a § 1.63 executed oath or declaration has not been submitted), notwithstanding § 1.33(b)(4), who can also file the written assertion pursuant to the exception under § 1.33(b) of this part; or
 - (iii) An assignee of an undivided part interest, notwithstanding §§ 1.33(b(3)) and 3.73(b) of this chapter, but the partial assignee cannot file the assertion without resort to a party identified under § 1.33(b) of this part."

35 C.F.R. § 1.33(b):

- (b) Amendment and other papers. Amendments and other papers, except for written assertions pursuant to \S 1.27(c)(2)(ii) of this part, filed in the application must be signed by:
 - (1) A registered attorney or agent of record appointed in compliance with \S 1.34(b):
 - A registered attorney or agent not of record who acts in a representative capacity under the provisions of § 1.34(a);
 - (3) An assignee as provided for under § 3.71(b) of this chapter; or
 - (4) All of the applicants (§ 1.41(b)) for patent, unless there is an assignee of the entire interest and such assignee has taken action in the application in accordance with § 3.71 of this chapter.

Respectfully submitted,

WILLIAM R. EVANS C/O LADAS & PARRY 26 WEST 61ST STREET NEW YORK, N. Y. 10023

REG. NO.: 25,858 (212) 708-1930